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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,475	07/07/2003	Vincent Dupaquis	ATM-214	9328	
3897	7590 10/13/2006	•	. EXAMINER		
SCHNECK & SCHNECK P.O. BOX 2-E			MAI, TAN V		
	CA 95109-0005		ART UNIT	PAPER NUMBER	
			2193		

DATE MAILED: 10/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Apı	Application No. Appli		olicant(s)			
		10	615,475	DUPAQUIS ET A	L.			
		Exa	aminer	Art Unit				
		Tar	ı V. Mai	2193				
Period fo	The MAILING DATE of this communica or Reply	ition appears	on the cover sheet	with the correspondence ac	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAI assions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of the reply is specified above, the maximum statute to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	LING DATE (37 CFR 1.136(a). ication. ory period will app I, by statute, cause	OF THIS COMMUII In no event, however, may by and will expire SIX (6) Me the application to become	NICATION. The a reply be timely filed SOUTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status	·							
1)⊠	Responsive to communication(s) filed	on 03 Augus	t 2005.					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)	<u>'</u>							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-8 is/are pending in the appli	ication.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-8</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	n and/or elec	ction requirement.					
Applicati	on Papers							
9)	The specification is objected to by the E	Examiner.						
·	The drawing(s) filed on is/are: a		d or b) objected	to by the Examiner.				
	Applicant may not request that any objection	on to the drawi	ng(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including th	e correction is	required if the drawi	ng(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to b	y the Examin	er. Note the attach	ned Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119							
- •	Acknowledgment is made of a claim for ☑ All b) ☐ Some * c) ☐ None of:		-					
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage 							
	application from the Internationa	•			- C.a.go			
* 5	ee the attached detailed Office action f	•	• • • •	ot received.				
Attachmen	Ne)							
_	e of References Cited (PTO-892)		4) Interview	w Summary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO		Paper N	lo(s)/Mail Date				
	nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date <u>10/23,28/04, 3/29/</u> 04, <i>8</i> /3/0.		5) Notice of Other: _	of Informal Patent Application (PT	O-152)			

Page 2

Application/Control Number: 10/615,475

Art Unit: 2193

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims recite a method for performing a mathematical function.

"[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention "transforms" an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,...".

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

Since there is no physical transform to establish a practical application, a useful, concrete and tangible result <u>appears</u> to be lacking. Therefore, claims 1-7 are directed to a non-statutory process.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chevillat et al (IBM Tech. Disc. Bull.).

Chevillat et al disclose a multiplication circuit (12X12) having at least one operand (16 bit) wider than the multiplication circuit. The multiplication circuit comprises: multiplier & multiplicand registers, multiplier unit, ALU and ACCUM. It is noted that Chevillat et al do NOT show the claimed "accumulator having a size of three words plus a number of carry bits" feature; however, the feature is obvious to a person having ordinary skill in the art to use an accumulator having sufficient size to accommodate the desired final result of the multiplication circuit. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to design the claimed invention according to Chevillat et al's teachings because the device is a multiplication circuit capable of multiplying the operand(s) which is wider than the multiplication circuit as claimed.

4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over New et al.

New et al disclose, e.g., see Fig. 1, a multiplication circuit (32X32) having operands (64 bit) wider than the multiplication circuit. The multiplication circuit comprises: multiplier & multiplicand registers, multiplier array (120), adder (152) and "accumulator" (160, 166). It is noted that New et al do NOT show the claimed "accumulator having a size of three words plus a number of carry bits" feature; however, the feature is obvious to a person having ordinary skill in the art to use an accumulator having sufficient size to accommodate the desired final result of the multiplication circuit. It would have been obvious to a person having ordinary skill in the

Application/Control Number: 10/615,475

Art Unit: 2193

art at the time the invention was made to design the claimed invention according to New et al's teachings because the device is a multiplication circuit capable of multiplying the operand(s) which is wider than the multiplication circuit as claimed.

Page 4

5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rim.

Rim discloses, e.g., see Fig. 1, a multiplication circuit having operands wider than the multiplication circuit. The multiplication circuit comprises: multiplier & multiplicand registers, multiplier (S11), ALU (17) and accumulator (13). It is noted that New et al do NOT show the claimed "accumulator having a size of **three words** plus a number of carry bits" feature; however, the feature is obvious to a person having ordinary skill in the art to use an accumulator having sufficient size to accommodate the desired final result of the multiplication circuit. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to design the claimed invention according to Rim's teachings because the device is a multiplication circuit capable of multiplying the operand(s) which is wider than the multiplication circuit as claimed.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited reference is art of interest.

Application/Control Number: 10/615,475 Page 5

Art Unit: 2193

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner